

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (canceled).
2. (currently amended): A method of transferring information signals between two separate send/receive interfaces which are part of the same communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, said method also comprising the steps of:
 - distinguishing between user data and signaling data,
 - applying to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applying to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,wherein, when the following two processing sequences i) and ii) are applied to said signaling data:

i) demodulation/burst demultiplexing/burst decomposition/decryption, ~~and, where applicable, data de-interleaving/data channel decoding/source decoding, and~~

ii) source coding/channel coding/coded data interleaving/encryption, ~~and where applicable, burst composition/burst multiplexing/modulation~~

then only the following restricted processing sequences iii) and iv) are applied to said user data by the interfaces concerned:

iii) demodulation/burst demultiplexing/burst decomposition/decryption, ~~where applicable, and~~

iv) encryption, ~~and, where applicable, burst composition/burst multiplexing/modulation.~~

3. (original): The method claimed in claim 2 wherein said restricted processing sequences are applied to said user data as a function of an activated or de-activated state of a communication function requiring specific additional processing of reproduced or reconstituted user data.

4. (previously presented): The method claimed in claim 2, wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the other is a radio interface for a cellular telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

5. (previously presented): The method claimed in claim 2, wherein said two interfaces are radio interfaces which are part of the communication device which also comprises a controller of sender-receiver centers or base stations of a radiocommunication network including

fixed base stations distributed over a given territory and a plurality of mobile stations such as cellular telephones.

6. (canceled).

7. - 13. (canceled).

14. (previously presented): A method of transferring information signals between two separate send/receive interfaces which are part of the same communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, said method also comprising the steps of:

- distinguishing between user data and signaling data,
 - applying to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applying to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,
- wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the other is a radio interface for a cellular telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

15. (previously presented): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces in accordance with a method of transferring information signals between said two separate send/receive interfaces which are part of said communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, the method also comprising the steps of:

- distinguishing between user data and signaling data,
 - applying to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
 - applying to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,
- wherein said two interfaces are radio interfaces, one of them is a radio interface for a cordless telephone local area network, the other is a radio interface for a cellular

telecommunication network for mobile stations, and said interfaces are part of a fixed base station of said cordless telephone local area network.

16. (previously presented): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces in accordance with a method of transferring information signals between said two separate send/receive interfaces which are part of said communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, the method also comprising the steps of:

- distinguishing between user data and signaling data,
- applying to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and
- applying to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,

wherein said two interfaces are radio interfaces providing transmission between stations of the same network or of two different networks, and

wherein said device comprises a controller of sender-receiver centers or base stations controlling at least two base stations of a cellular radiocommunication network including fixed base stations distributed over a given territory and a plurality of mobile stations.

17. (previously presented): A communication device integrating at least two separate send/receive interfaces using, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular formats, and applying opposite processing sequences for a particular incoming signal, wherein one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, and information signals are transferred between said two interfaces in accordance with a method of transferring information signals between said two separate send/receive interfaces which are part of said communication device, the method including processing of said signals, wherein said two interfaces use, at least for information data useful to users, referred to as user data, similar transmission structures and protocols, and in particular similar formats and apply opposite processing sequences for a particular incoming signal, one of said interfaces converts modulated data into baseband data and the other of said interfaces converts said baseband data into modulated data, or vice-versa, the method also comprising the steps of:

- distinguishing between user data and signaling data,

- applying to said signaling data all processing operations needed to enable it to be interpreted by each of said interfaces, and

- applying to said user data only processing operations needed to transfer it from a first of said interfaces to the other of said interfaces without reconstituting or interpreting its content,

wherein said two interfaces are radio interfaces providing transmission between stations of the same network or of two different networks, and

wherein said device comprises a fixed base station of a cordless telephone local area network, wherein one of said interfaces provides the link with said mobile station or stations of said local area network and the other of said interfaces provides the connection to one or more fixed or mobile stations of a cellular telecommunication network.

18. (new): The method claimed in claim 2, wherein processing sequence i) includes data d-interleaving/data channel decoding/source decoding, processing sequence ii) includes burst composition/burst multiplexing/modulation, and processing sequence iv) includes burst composition/burst multiplexing/modulation.